

## INTERNATIONAL SEARCH REPORT

International application No.

PCT/IB 2004/051829

## A. CLASSIFICATION OF SUBJECT MATTER

**IPC7: H01Q 21/30**

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

**IPC7: H01Q, H04B**

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

**SE,DK,FI,NO classes as above**

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

**EPO-INTERNAL, WPI DATA, PAJ**

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	EP 1289061 A2 (HIRSCHMANN ELECTRONICS GMBH & CO. KG), 5 March 2003 (05.03.2003), see whole document --	1-21
A	EP 0862278 A2 (NOKIA MOBILE PHONES LTD.), 2 Sept 1998 (02.09.1998), see whole document --	1-21
A	EP 0905915 A2 (MATSUSHITA ELECTRIC INDUSTRIAL CO., LTD.), 31 March 1999 (31.03.1999), see whole document -- -----	1-21

<input type="checkbox"/>	Further documents are listed in the continuation of Box C.	<input checked="" type="checkbox"/> See patent family annex.
* Special categories of cited documents:		
"A"	document defining the general state of the art which is not considered to be of particular relevance	"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
"E"	earlier application or patent but published on or after the international filing date	"X" document of particular relevance: the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
"L"	document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)	"Y" document of particular relevance: the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
"O"	document referring to an oral disclosure, use, exhibition or other means	"&" document member of the same patent family
"P"	document published prior to the international filing date but later than the priority date claimed	

Date of the actual completion of the international search <b>22 March 2005</b>	Date of mailing of the international search report <b>30 -03- 2005</b>
Name and mailing address of the ISA/ Swedish Patent Office Box 5055, S-102 42 STOCKHOLM Facsimile No. + 46 8 666 02 86	Authorized officer <b>Stefan Hultquist/MN</b> Telephone No. + 46 8 782 25 00

**INTERNATIONAL SEARCH REPORT**  
Information on patent family members

01/03/2005

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EP	1289061	A2	05/03/2003	NONE	
EP	0862278	A2	02/09/1998	FI FI US	102927 B 970618 A 6133884 A 00/00/0000 15/08/1998 17/10/2000
EP	0905915	A2	31/03/1999	JP US US	11186932 A 6459915 B 20010051537 A 09/07/1999 01/10/2002 13/12/2001